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Exam : **AZ-120**

Title : Planning and Administering Microsoft Azure for SAP Workloads

Version : DEMO

1. Topic 1, Litware, inc

Case Study
This is a case study. **Case studies are not timed separately. You can use as much exam time as you would like to complete each case.** However, there may be additional case studies and sections on this exam. You must manage your time to ensure that you are able to complete all questions included on this exam in the time provided.

To answer the questions included in a case study, you will need to reference information that is provided in the case study. Case studies might contain exhibits and other resources that provide more information about the scenario that is described in the case study. Each question is independent of the other questions in this case study.

At the end of this case study, a review screen will appear. This screen allows you to review your answers and to make changes before you move to the next section of the exam. After you begin a new section, you cannot return to this section.

To start the case study
To display the first question in this case study, click the **Next** button. Use the buttons in the left pane to explore the content of the case study before you answer the questions. Clicking these buttons displays information such as business requirements, existing environment, and problem statements. If the case study has an **All Information** tab, note that the information displayed is identical to the information displayed on the subsequent tabs. When you are ready to answer a question, click the **Question** button to return to the question.

Overview
Litware, Inc. is an international manufacturing company that has 3,000 employees.
Litware has two main offices. The offices are located in Miami, FL, and Madrid, Spain.

Existing Environment
Infrastructure
Litware currently uses a third-party provider to host a datacenter in Miami and a disaster recovery datacenter in Chicago, IL.

The network contains an Active Directory domain named litware.com. Litware has two third-party applications hosted in Azure.

Litware already implemented a site-to-site VPN connection between the on-premises network and Azure.

SAP Environment
Litware currently runs the following SAP products:
- Enhancement Pack6 for SAP ERP Central Component 6.0 (SAP ECC 6.0)
- SAP Extended Warehouse Management (SAP EWM)
- SAP Supply Chain Management (SAP SCM)

- SAP NetWeaver Process Integration (PI)
- SAP Business Warehouse (SAP BW)
- SAP Solution Manager

All servers run on the Windows Server platform. All databases use Microsoft SQL Server. Currently, you have 20 production servers.

You have 30 non-production servers including five testing servers, five development servers, five quality assurance (QA) servers, and 15 pre-production servers.

Currently, all SAP applications are in the litware.com domain.

Problem Statements
The current version of SAP ECC has a transaction that, when run in batches overnight, takes eight hours to complete. You confirm that upgrading to SAP Business Suite on HANA will improve performance because of code changes and the SAP HANA database platform.

Litware is dissatisfied with the performance of its current hosted infrastructure vendor. Litware experienced several hardware failures and the vendor struggled to adequately support its 24/7 business operations.

Requirements
Business Goals
Litware identifies the following business goals:
- Increase the performance of SAP ECC applications by moving to SAP HANA. All other SAP databases will remain on SQL Server.
- Move away from the current infrastructure vendor to increase the stability and availability of the SAP services.
- Use the new Environment, Health and Safety (EH&S) in Recipe Management function.
- Ensure that any migration activities can be completed within a 48-hour period during a weekend.

Planned Changes
Litware identifies the following planned changes:
- Migrate SAP to Azure.
- Upgrade and migrate SAP ECC to SAP Business Suite on HANA Enhancement Pack 8.

Technical Requirements
Litware identifies the following technical requirements:
- Implement automated backups.
- Support load testing during the migration.
- Identify opportunities to reduce costs during the migration.
- Continue to use the litware.com domain for all SAP landscapes.
- Ensure that all SAP applications and databases are highly available.
- Establish an automated monitoring solution to avoid unplanned outages.

- Remove all SAP components from the on-premises network once the migration is complete.
- Minimize the purchase of additional SAP licenses. SAP HANA licenses were already purchased.
- Ensure that SAP can provide technical support for all the SAP landscapes deployed to Azure.

You need to recommend a solution to reduce the cost of the SAP non-production landscapes after the migration.
What should you include in the recommendation?
A. Deallocate virtual machines when not In use.
B. Migrate the SQL Server databases to Azure SQL Data Warehouse.
C. Configure scaling of Azure App Service.
D. Deploy non-production landscapes to Azure Devlest Labs.
Answer: C

1.You need to recommend a solution to reduce the cost of the SAP non-production landscapes after the migration.
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Answer: C

2.HOTSPOT
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.
Answer Arca

Statements	Yes	NO
After the migration, you can use Azure Site Recovery to back up the SAP HANA databases.	○	○
After the migration, you can use SAP HANA Cockpit to back up the SAP ECC databases.	○	○
After the migration, you can use SAP HANA Cockpit to back up SAP BW.	○	○

Answer:
Answer Arca

Statements	Yes	NO
After the migration, you can use Azure Site Recovery to back up the SAP HANA databases.	○	○
After the migration, you can use SAP HANA Cockpit to back up the SAP ECC databases.	○	○
After the migration, you can use SAP HANA Cockpit to back up SAP BW.	○	○

Explanation:
YES

YES
NO

3.HOTSPOT
For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Statements	Yes	No
After the migration, all user authentication to the SAP applications must be handled by Azure Active Directory (Azure AD).	○	○
The migration requires that the on-premises Active Directory domain syncs to Azure Active Directory (Azure AD).	○	○
After the migration users will be able to authenticate to the SAP applications by using their existing credentials in litware.com.	○	○

Answer:

Statements	Yes	No
After the migration, all user authentication to the SAP applications must be handled by Azure Active Directory (Azure AD).	○	○
The migration requires that the on-premises Active Directory domain syncs to Azure Active Directory (Azure AD).	○	○
After the migration users will be able to authenticate to the SAP applications by using their existing credentials in litware.com.	○	○

Explanation:
In a Hybrid-IT scenario, Active Directory from on-premises can be extended to serve as the authentication mechanism through an Azure deployed domain controller (as well as potentially using the integrated DNS).
It is important to distinguish between traditional Active Directory Servers and Microsoft Azure Active Directory that provides only a subset of the traditional on-premises AD offering. This subset include Identity and Access Management, but does not have the full AD schema or services that many 3rd party application take advantage of. While Azure Active Directory IS a requirement to establish authentication for the Azure virtual machines in use, and it can synchronize users with customers' on-premises AD, the two are explicitly different and customers will likely continue to require full Active Directory servers deployed in Microsoft Azure.
Reference: https://www.suse.com/media/guide/sap_hana_on_azure_101.pdf

4.You are evaluating which migration method Litware can implement based on the current environment and the business goals.

Which migration method will cause the least amount of downtime?
A. Use the Database migration Option (DMO) to migrate to SAP HANA and Azure During the same maintenance window.
B. Use Near-Zero Downtime (NZDT) to migrate to SAP HANA and Azure during the same maintenance window.
C. Migrate SAP to Azure, and then migrate SAP ECC to SAP Business Suite on HANA.
D. Migrate SAP ECC to SAP Business Suite on HANA an the migrate SAP to Azure.
Answer: A
Explanation:
The SAP Database Migration Option (DMO) with System Move option of SUM, used as part of the migration allows customer the options to perform the migration in a single step, from source system on-premises, or to the target system residing in Microsoft Azure, minimizing overall downtime.
Reference: https://blogs.sap.com/2017/10/05/your-sap-on-azure-part-2-dmo-with-system-move/

5.Litware is evaluating whether to add high availability after the migration?
What should you recommend to meet the technical requirements?
A. SAP HANA system replication and Azure Availability Sets
B. Azure virtual machine auto-restart with SAP HANA service auto-restart.
C. Azure Site Recovery
Answer: A